

EAST Search History**EAST Search History (Prior Art)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	10	("20020102169" "20020169399" "4360324" "4627419" "5092878" "5263978" "5655893" "5980448" "6066085" "6123726").PN.	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/09/26 12:11
S2	16	blood pump actuator	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 11:02
S3	1	S2 and motor and cam and bellows	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 11:06
S4	11621	actuator and bellows	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 11:06
S5	78	actuator and bellows and blood pump	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 11:06
S6	26	actuator and bellows and blood pump and motor and cam	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 11:07
S7	25	S6 and rotat\$5	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 11:12
S8	3	actuator and blood pump and (motor with cam with bellows)	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 11:13
S9	1	actuator and blood pump and (motor with cam with bellows) and stepped	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 14:04
S10	3	actuator and blood pump and (motor with cam with bellows) and step\$5	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 14:04
S11	12	(blood with (pump or actuator))and (motor with cam with bellows) and step\$5	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 14:06
S12	1	actuator and (motor with cam with bellows) and (cam guide with stepped)	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 14:15

S13	2	actuator and (motor with cam with bellows) and (cam with stepped)	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 14:15
S14	10	cam guide with stepped	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 14:16
S15	250	cam follower with stepped	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 14:18
S16	5	cam follower with stepped shape	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 14:18
S17	3	bellows guide with extension	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 14:34
S18	5	bellows guide with expand\$4	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 14:35
S19	1	bellows with guide with bicycle	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 14:36
S20	1204	bellows near5 guide	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 14:37
S21	729	bellows near3 guide	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 14:37
S22	430	bellows near2 guide	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 14:37
S23	39	(bellows near2 guide) with rod	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 14:37
S24	807	bellows near2 rod	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 14:54
S25	99	bellows rod	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 14:54
S26	3849	bellows and ("600" or "607" or "604").clas.	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 14:55
S27	1754	bellows and ("600" or "607" or "604").clas. and (guide or rod)	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 14:55
S28	795	bellows and ("600" or "607" or "604").clas. and rod	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 14:55

S29	114	(bellows with rods) and ("600" or "607" or "604"). clas.	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 14:55
S30	1	(blood with (pump or actuator)) and pressure regulating unit	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 16:26
S31	66	(blood with (pump or actuator)) and pressure unit	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 16:26
S32	183	(blood with (pump or actuator)) and (pressure with regulat\$5 with unit)	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 16:27
S33	37	(blood with (pump or actuator)) same (pressure with regulat\$5 with unit)	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 16:27
S34	23	(blood near3 (pump or actuator)) same (pressure with regulat\$5 with unit)	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 16:28
S35	2	(blood near3 (pump or actuator)) same (pressure with regulat\$5 with unit) and diaphragm	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 16:28
S36	18	(blood near3 (pump or actuator)) same (pressure with unit) same gauge and pump and control	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 16:32
S37	13	(blood near3 (pump or actuator)) same (pressure with unit) same gauge same pump same control	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 16:32
S38	291	(blood near3 (pump or actuator)) same (pressure with unit)	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 16:54
S39	168	(blood near3 (pump or actuator)) same (pressure with unit) same control	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 16:55
S40	10	(blood near3 (pump or actuator)) same (pressure with unit) same control same fluid pump	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 16:55
S41	21	(blood near3 (pump or actuator)) and (pressure with unit) same control same fluid pump	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 16:56

S42	80	(blood near3 (pump or actuator)) and ((pressure with control) same fluid pump)	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 16:57
S43	3	(blood near3 (pump or actuator)) and ((pressure with control) same fluid pump) and bellows	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 16:57
S44	19	(blood near3 (pump or actuator)) and ((pressure with control) same diaphragm) and bellows	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 17:02
S45	3	(blood near3 (pump or actuator)) and (pressure gauge with bellows)	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 17:08
S46	75	(pump or actuator) and (pressure gauge with bellows)	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 17:13
S47	15	(pump or actuator) and (pressure gauge with bellows) and ("600" or "604" or "607").clas.	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 17:13
S48	180	(pump or actuator) and (pressure gauge same bellows)	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 17:23
S49	151	(pump or actuator) and (pressure gauge same bellows) and valve	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 17:23
S50	14	(pump or actuator) and (pressure gauge same bellows) and valve and control unit	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 17:23
S51	59082	(pump or actuator) and pressure near3 regulat\$5	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 17:27
S52	2380	(pump or actuator) and (pressure near3 regulat \$5) and ("600" or "604" or "607").clas.	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 17:27
S53	293	(pump or actuator) and (pressure near3 regulat \$5) and ("600" or "604" or "607").clas. and fluid pump	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 17:27
S54	75	(pump or actuator) and (pressure near3 regulat \$5) and ("600" or "604" or "607").clas. and fluid pump and control valves	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 17:27

S55	14	(pump or actuator) and (pressure near3 regulat \$5) and ("600" or "604" or "607").clas. and fluid pump and control valves and control unit	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 17:27
S56	1	(pump or actuator) and (pressure near3 regulat \$5) and ("600" or "604" or "607").clas. and fluid pump and control valves and control unit and bellows	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 17:28
S57	2	(pump or actuator) and (pressure near3 regulat \$5) and ("600" or "604" or "607").clas. and fluid pump and control valves and bellows	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 17:28
S58	19	(pump or actuator) and (pressure near3 (control or regulat\$5)) and ("600" or "604" or "607").clas. and fluid pump and control valves and bellows	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 17:30
S59	420	(pump or actuator) and (pressure near3 (control or regulat\$5)) and ("600" or "604" or "607").clas. and pump and valves and bellows	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 17:55
S60	48	(pump or actuator) and ((pressure near3 (control or regulat\$5)) same control unit) and ("600" or "604" or "607").clas. and pump and valves and bellows	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 17:55
S61	1	(pump or actuator) and ((pressure near3 (control or regulat\$5) with bellows) same control unit) and ("600" or "604" or "607").clas. and pump and valve	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 17:58
S62	1	(pump or actuator) and ((pressure near3 (control or regulat\$5) with bellows) same control unit) and ("600" or "604" or "607").clas.	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 17:58

S63	50	(pump or actuator) and ((pressure near3 (control or regulat\$5) with bellows) same control) and ("600" or "604" or "607").clas.	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 17:58
S64	4	blood (pump or actuator) and (pressure near3 (control or regulat \$5) with bellows)	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 18:27
S65	27	("4360019" "4373527" "4395259" "4443218" "4447244" "4464172" "4486190" "4557726" "4573994" "4717462" "4871351").PN. OR ("5507737").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/08 18:40
S66	116	((KYUNG) near2 (SUN)).INV.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/08 20:10
S67	1115	((KYU) near2 (LEE)).INV.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/08 20:10
S68	1788	((YONG) near2 (PARK)).INV.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/08 20:11
S69	298	((HO) near2 (SON)).INV.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/08 20:11
S70	748	((CHANG) near2 (HWANG)).INV.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/08 20:11
S71	81	((GI) near2 (JEONG)).INV.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/08 20:11
S72	27	("4360019" "4373527" "4395259" "4443218" "4447244" "4464172" "4486190" "4557726" "4573994" "4717462" "4871351").PN. OR ("5507737").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/08 20:26
S73	116	((KYUNG) near2 (SUN)).INV.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/08 20:26
S74	1115	((KYU) near2 (LEE)).INV.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/08 20:26
S75	1788	((YONG) near2 (PARK)).INV.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/08 20:26
S76	298	((HO) near2 (SON)).INV.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/08 20:26
S77	748	((CHANG) near2 (HWANG)).INV.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/08 20:26
S78	81	((GI) near2 (JEONG)).INV.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/08 20:26

S79	2	(S72 or S73 or S74 or S75 or S76 or S77 or S78) and (blood and (pump or actuator) and bellows).clm.	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 20:26
S80	2	cam (follower or guide) with sine curve shape	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 21:27
S81	2	cam (follower or guide) with sine near2 shape	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 21:29
S82	8	cam (follower or guide) with (sine near2 curve)	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 21:29
S83	27	("4360019" "4373527" "4395259" "4443218" "4447244" "4464172" "4486190" "4557726" "4573994" "4717462" "4871351").PN. OR ("5507737").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/08 21:35
S84	116	((KYUNG) near2 (SUN)).INV.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/08 21:35
S85	1115	((KYU) near2 (LEE)).INV.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/08 21:35
S86	1788	((YONG) near2 (PARK)).INV.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/08 21:35
S87	298	((HO) near2 (SON)).INV.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/08 21:35
S88	748	((CHANG) near2 (HWANG)).INV.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/08 21:35
S89	81	((GI) near2 (JEONG)).INV.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/08 21:35
S90	25	(S83 or S84 or S85 or S86 or S87 or S88 or S89) and sine	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 21:35
S91	1	(S83 or S84 or S85 or S86 or S87 or S88 or S89) and (sine with cam)	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 21:35
S92	1	(S83 or S84 or S85 or S86 or S87 or S88 or S89) and (curve with cam)	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 21:35
S93	75	(S83 or S84 or S85 or S86 or S87 or S88 or S89) and (cam)	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 21:35
S94	1	(S83 or S84 or S85 or S86 or S87 or S88 or S89) and (cam same sine)	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 21:35

S95	2	(S83 or S84 or S85 or S86 or S87 or S88 or S89) and (cam same curve)	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 21:36
S96	2	cam with sine curve shape	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 21:37
S97	0	cam with sine shape	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 21:37
S98	39	cam with sine with shape	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 21:37
S99	21	cam with sine near3 shape	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 21:37
S100	32	cam same (sine near3 shape)	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 21:38
S101	3	wave cam and ("600" or "604" or "607").clas.	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 21:41
S102	3849	bellows and ("600" or "604" or "607").clas.	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 21:59
S103	114	S102 and (bellows with rod)	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 21:59
S104	114	("600" or "604" or "607").clas. and (bellows with rod)	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 22:00
S105	8306	(bellows with rod)	USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/10/08 22:02
S106	4	(bellows with rod) and (blood (pump or actuator))	USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/10/08 22:02
S107	8	(bellows and rod) and (blood (pump or actuator))	USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/10/08 22:04
S108	0	(bellows with guide) and (blood (pump or actuator))	USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/10/08 22:05
S109	1	(bellows same guide) and (blood (pump or actuator))	USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/10/08 22:05
S110	2282	(bellows with rod) and (pump or actuator)	USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/10/08 22:06

S111	27	(bellows with rod) and (pump or actuator) and blood	USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/10/08 22:06
S112	32	(bellows and pneumatic) and (pump or actuator) and blood	USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/10/08 22:14
S113	47	(bellows and (hydraulic or pneumatic)) and (pump or actuator) and blood	USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/10/08 22:14
S114	23	(bellows and (hydraulic or pneumatic) and rod) and (pump or actuator) and blood	USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/10/08 22:15
S115	35	S113 not (S111)	USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/10/08 22:16
S116	3	(bellows and (hydraulic or pneumatic) and rod) and (compressor) and blood	USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/10/08 22:23
S117	1	1982-A1603E.NRAN.	DERWENT	ADJ	ON	2008/10/08 22:28
S118	21	blood pump with compressor	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 22:43
S119	3534	stepped shape	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 22:59
S120	62	stepped shape with cam	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 22:59
S121	12	stepped shape with cam	USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/10/08 22:59
S122	59	stepped shape and cam	USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/10/08 23:00
S123	68	teeth shape with cam	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 23:06
S124	0	teeth shape with cam with blood	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 23:06
S125	1	teeth shape with cam and blood	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 23:06

S126	3	((tooth near3 shape\$2) same cam (guid\$3 or follow\$3 or surfac\$3)) and blood	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 23:07
S127	5	((tooth or notch) near3 shape\$2) same cam (guid \$3 or follow\$3 or surfac \$3)) and blood	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 23:09
S128	161	((tooth or notch) near3 shape\$2) same cam (guid \$3 or follow\$3 or surfac \$3)) and (pump or actuator)	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 23:10
S129	68	((tooth or notch) near3 shape\$2) with cam (guid \$3 or follow\$3 or surfac \$3)) and (pump or actuator)	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 23:10
S130	0	((tooth or notch) near3 shape\$2) with cam (guid \$3 or follow\$3 or surfac \$3)) and imd	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 23:15
S131	3	((tooth or notch) near3 shape\$2) with cam (guid \$3 or follow\$3 or surfac \$3)) and implant	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 23:15
S132	39	((tooth or notch) near3 shape\$2) with cam (guid \$3 or follow\$3 or surfac \$3)) and (implant or imd or blood or pump or actuator or heart)	USOCR; FPRS; EPO; JPO; DERWENT	ADJ	ON	2008/10/08 23:17
S133	10	((tooth or notch) near3 shape\$2) with cam (guid \$3 or follow\$3 or surfac \$3)) and (implant or imd or heart)	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 23:18
S134	0	((perpendicular) with shape\$2) with cam (guid \$3 or follow\$3 or surfac \$3)) and ("600" or "604" or "607").clas.	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 23:21
S135	0	((perpendicular) with cam (guid\$3 or follow\$3 or surfac\$3)) and ("600" or "604" or "607").clas.	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 23:21
S136	24	((perpendicular) with cam (guid\$3 or follow\$3 or surfac\$3)) and ("600" or "604" or "607").clas.	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 23:21

S137	227	((perpendicular or groove) with cam (guid \$3 or follow\$3 or surfac \$3)) and ("600" or "604" or "607").clas.	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 23:22
S138	120	((perpendicular or groove) with cam (guid \$3 or follow\$3 or surfac \$3)) and ("600" or "604" or "607").clas. and (pump or compressor or blood)	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 23:23
S139	1	((perpendicular or groove) with cam (guid \$3 or follow\$3 or surfac \$3)) and ("600" or "604" or "607").clas. and (blood pump)	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 23:23
S140	1	((perpendicular or groove) with cam (guid \$3 or follow\$3 or surfac \$3)) and ("600" or "604" or "607").clas. and (blood (pump or actuator))	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 23:23
S141	209	((groove) with cam (guid \$3 or follow\$3 or surfac \$3)) and ("600" or "604" or "607").clas.	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 23:28
S142	123	S141 and (pump or actuator)	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 23:28
S143	74	S141 and (pump or actuator) and blood	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/08 23:28
S144	0	stepped shape near5 cam (follower or surface or guide)	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/09 12:05
S145	3	((tooth or step\$3) near2 shape) near5 cam (follower or surface or guide)	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/09 12:05
S146	205	((tooth or step\$3) near2 shape) near5 cam	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/09 12:06
S147	91	((tooth or step\$3) near2 shape) near2 cam	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/09 12:06
S148	50	((tooth or step\$3) near2 shape) near cam	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/09 12:06

S149	1	bellows plate with even (sectors or sections)	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/09 13:50
S150	1	bellows near2 plate with even (sectors or sections)	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/09 13:50
S151	1	bellows plate with even	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/09 13:50
S152	20	bellows plate with (sectors or sections)	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/09 13:50
S153	87	bellows near2 plate and ("600" or "604" or "607"). clas.	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/09 13:52
S154	54	bellows near2 plate and ("600" or "604" or "607"). clas. and pump	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/09 13:52
S155	19	bellows near2 plate and ("600" or "604" or "607"). clas. and pump and actuator	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/09 13:52
S156	1	(bellows near2 plate with (balance or imbalance)) and ("600" or "604" or "607").clas.	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/09 14:00
S157	4	(bellows near2 plate with (balance or imbalance))	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/09 14:00
S158	1007	(bellows with pressure) and ("600" or "604" or "607").clas.	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/09 17:02
S159	650	(bellows with pressure) and ("600" or "604" or "607").clas. and (pump or actuator)	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/09 17:03
S160	27	("3553736" "3692018" "4014005" "4034742" "4051840" "4091471" "4167046" "4195623" "4250872" "4576606" "4630597" "4733652" "4851002" "4938766" "5089016" "5133742" "5263978" "5282849" "5314469" "5569156" "5599173").PN. OR ("6066085").URPN.	US-PGPUB; USPAT; USOCR	ADJ	ON	2008/10/09 17:50
S161	125	S159 and (regulat\$5 near3 pressure)	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/09 18:08

S162	264	S159 and pressure near (sensor or unit or regulator or control or monitor or \$5)	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/09 18:16
S163	204	S159 and pressure near (sensor or unit or control)	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/09 18:16
S164	1	S159 and pressure near (sensor or unit or control) and ((regulator or \$5) pressure) near bellows)	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/09 18:16
S165	0	S159 and pressure near (sensor or unit or control) and (((monitor or control) pressure) near bellows)	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/09 18:18
S166	0	S159 and pressure near (sensor or unit or control) and (((monitor or control) pressure) near bellows)	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/09 18:19
S167	242	(bellows near2 pressure) and ("600" or "604" or "607").clas. and (pump or actuator)	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/09 18:20
S168	62	(bellows near2 pressure) and ("600" or "604" or "607").clas. and (pump or actuator) and (pressure near2 (sensor or unit))	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/09 18:20
S169	10	(bellows near2 pressure) and ("600" or "604" or "607").clas. and (pump or actuator) and (pressure near2 (sensor or unit)) and (diaphragm with pump)	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/09 18:47
S170	7	(bellows near2 pressure) and ("600" or "604" or "607").clas. and (pump or actuator) and (pressure near2 (sensor or unit)) and ((diaphragm with pump) same bellows)	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/09 18:48
S171	4	10/095100	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/09 18:49

S172	26	(bellows near 2 pressure) and ("600" or "604" or "607").clas. and (pump or actuator) and (diaphragm with pump)	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/09 18:59
S173	962	600/16.ccls.	US-PGPUB; USPAT; IBM_TDB	ADJ	ON	2008/10/09 20:22
S174	1	"10568090"	US-PGPUB; USPAT; IBM_TDB	ADJ	OFF	2009/06/07 05:57
S175	14	"4623350"	US-PGPUB; USPAT; IBM_TDB	ADJ	OFF	2009/06/07 06:16
S176	1	"4623350".pn.	US-PGPUB; USPAT; IBM_TDB	ADJ	OFF	2009/06/07 06:16
S177	1	"4557726".pn.	US-PGPUB; USPAT; IBM_TDB	ADJ	OFF	2009/06/07 06:17
S178	1	"7238171".pn.	US-PGPUB; USPAT; IBM_TDB	ADJ	OFF	2009/06/07 06:17
S180	2623	417/396.ccls. or 417/397.ccls. or 604/8.ccls. or 600/16.ccls. or 600/17.ccls. or 600/18.ccls. or 623/3.17.ccls. or 623/3.23.ccls.	US-PGPUB; USPAT; IBM_TDB	ADJ	OFF	2009/09/30 22:08
S181	8	S180 and pump and motor and stator and rotor and cam and bellows	US-PGPUB; USPAT; IBM_TDB	ADJ	OFF	2009/09/30 22:44
S182	2623	417/396.ccls. or 417/397.ccls. or 604/8.ccls. or 600/16.ccls. or 600/17.ccls. or 600/18.ccls. or 623/3.17.ccls. or 623/3.23.ccls.	US-PGPUB; USPAT; IBM_TDB	ADJ	OFF	2009/10/01 00:29
S183	1	S182 and pump and motor and stator and rotor and cam and bellows plate	US-PGPUB; USPAT; IBM_TDB	ADJ	OFF	2009/10/01 00:29
S184	87	pump and motor and stator and rotor and cam and bellows	US-PGPUB; USPAT; IBM_TDB	ADJ	OFF	2009/10/01 00:30
S185	79	S184 not S182	US-PGPUB; USPAT; IBM_TDB	ADJ	OFF	2009/10/01 00:30

S187	1	"20020169399".\$.did.	US-PGPUB; USPAT; IBM_TDB	ADJ	OFF	2009/10/01 00:33
S188	10	("20020102169" "20020169399" "4360324" "4627419" "5092878" "5263978" "5655893" "5980448" "6066085" "6123726"). PN.	US-PGPUB; USPAT; IBM_TDB	ADJ	OFF	2009/10/01 00:36
S189	23	S182 and pump and motor and cam and bellows	US-PGPUB; USPAT; IBM_TDB	ADJ	OFF	2009/10/01 00:49
S190	8	S182 and pump and motor and stator and rotor and cam and bellows	US-PGPUB; USPAT; IBM_TDB	ADJ	OFF	2009/10/01 00:50
S191	15	S189 not (S190 or S183 or S185)	US-PGPUB; USPAT; IBM_TDB	ADJ	OFF	2009/10/01 00:51
S192	0	S182 and pump and motor and stator and rotor and cam and diaphragm plate	US-PGPUB; USPAT; IBM_TDB	ADJ	OFF	2009/10/01 01:26
S193	153	pump and motor and stator and rotor and cam and diaphragm	US-PGPUB; USPAT; IBM_TDB	ADJ	OFF	2009/10/01 01:26
S194	117	S193 not S184	US-PGPUB; USPAT; IBM_TDB	ADJ	OFF	2009/10/01 01:26
S195	112	S194 not S182	US-PGPUB; USPAT; IBM_TDB	ADJ	OFF	2009/10/01 01:26
S196	2	S182 and actuator and cam surface and bellows	US-PGPUB; USPAT; IBM_TDB	ADJ	OFF	2009/10/01 01:29
S197	4173	(bellows or diaphragm) and cam and motor and (pump or actuator)	USOCR; FPRS; EPO; JPO; DERWENT	ADJ	OFF	2009/10/01 01:31
S198	132	(bellows or diaphragm) and cam and motor and (pump or actuator) and stator and rotor	USOCR; FPRS; EPO; JPO; DERWENT	ADJ	OFF	2009/10/01 01:31
S199	1	"5782604".pn.	USOCR; FPRS; EPO; JPO; DERWENT	ADJ	OFF	2009/10/01 01:35
S204	2	EP-780578\$.did.	USOCR; FPRS; EPO; JPO; DERWENT	ADJ	OFF	2009/10/01 01:36

S205	1	"20090200499".\$did.	US-PGPUB; USPAT; IBM_TDB	ADJ	OFF	2009/10/01 01:37
S206	1	"6066085".pn.	US-PGPUB; USPAT; IBM_TDB	ADJ	OFF	2009/10/01 01:37
S207	168	cylindrical cam surface	US-PGPUB; USPAT; IBM_TDB	ADJ	OFF	2009/10/01 01:38
S208	2	S207 and bellows	US-PGPUB; USPAT; IBM_TDB	ADJ	OFF	2009/10/01 01:38
S209	1	"20090123299".\$did.	US-PGPUB; USPAT; IBM_TDB	ADJ	OFF	2009/10/01 01:39

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